Approved For Release 2005/07/13 : CIA-RD-80-00809A000500590230-9

CONFIDENTIAL

		CENTRAL INT			25X1
COUNTRY	USSR	APS AND PARTY	*1017	1201 A114	
SUBJECT	Assessment of U	Itilization of Oxyge	en in the	Cupola by	
	OF THE UNIVED STATES, SI AND TRA, OF THE U.S. COD- LATION OF ITS CONTENTS TO PROMISET ID BY LAW, THER		EIN THE MEANING OF TITLE 18, SECTIONS 753 , as amended, lits tramsmission or reve- or receipt by an unauthorized person is		
					DATE DISTR. 16 July /
		TAINS INFORMATION AFFECTING THE N		1	NO. CF PAGES 2
		TREE, BITHIN "41 MEANING OF TITLE) .S. CODE, AS AMENDED. ITS TRAMEN TENTS TO OR RECEIPT BY AN UNAUTHO			NO. OF ENCLS.
		INFVALUATED LASCON		1	SUPP. TO
	1815 15	UNEVALUATED INFORM	ATTON		REPORT NO.
		UTILIZATION OF OXY	CEN IN TH	E CUPOLA	
		By V Krasnov, Laur of the S M Kirov p	eate of t	the Stalin	prize and Director
	25X1[By V Krasnov, Laur	eate of t	the Stalin	prize and Director
in	Considerable ex	By V Krasnov, Laur of the S M Kirov p	reate of tolant "Dir	the Stalin ; namo"	prize and Director M Kirov plant "Dinemo" f oxygen in the process
in of . 2. 0x	Considerable expanded to find of production of production of gasification of cone ton of meters.	By V Krasnov, Laur of the S M Kirov p perimental work has out the effectivene pig iron. uced into the cupol f liquid oxygen. T	reate of tollant "Dir	the Stalin mamo" me at the Silization of the Staling of the Stali	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between
in of . 2. 0x by on 5	Considerable explored order to find of production of production of gasification of gasification of methods and 10 m ³ per minus	By V Krasnov, Laur of the S M Kirov premental work has out the effectivenering iron. used into the supplemental form of the individual oxygen. The supplemental and the rate of inute and per most of the supplemental of the sup	ceate of to plant "Dir	the Stalin mamo" ne at the Silization of the Si	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between
in of . 2. 0x by on 5	Considerable examples of the production of the production of the advantages of the production oxygen contents	By V Krasnov, Laur of the S M Kirov programmental work has out the effectivenering iron. Succeedinto the curol fliquid oxygen. The liquid oxygen of the oxygen blast, wity of the curola	reate of tolant "Dir s been don as of uti a (or bla he average consumpt the sect or oxygen increases compared	the Stalin ; nemo" ne at the Stalin ; nest furnace; se consumpt; cion during; cion through n-enriched life 1.5 to 2 fi is with a cup	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between the cupola. clast are as follown: times, depending on the pola working with a simple
in of of ox ox ox ox ox ox ox ox	Considerable exponential content of one tongor metric and 10 m ³ per mile advantages of the production oxygen content of oxygen to a simple air	By V Krasnov, Laur of the S M Kirov programmental work has out the effectivener pig iron. uced into the curol fliquid oxygen. The liquid oxygen of the oxygen blast, with of the blast, as the production procure of the molten makes of the blast, blast - 1390°C).	a (or bla he average consumpt the sect or oxygen increases compared ess is a letal incr	the Stalin mamo" me at the Silization of the Stalin during the consumption through the continuous reases in diam be increased to the continuous the silver temperature.	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between the cupola. clast are as follown: times, depending on the pola working with a simple
in of . 2. 0x by on 5	Considerable explanation of castings; Considerable explanation of production of production of metal one ton of metal and 10 m ³ per mile advantages of The production oxygen content of the production oxygen content of oxygen content of oxygen content of oxygen castings;	By V Krasnov, Laur of the S M Kirov profession of the S M Kirov profession of the effectivenes of the cupol of liquid oxygen. The control of the cupol of the oxygen blast, with of the cupol of the blast, as the production procession of the blast, as the production procession of the blast, as the production procession of the blast, blast - 1390°C). There were less can	ceate of tolant "Dir been don a (or bla he average consumpt the sect or oxygen increases compared ess is a etal increased and it compared the higher	the Stalin mamo" he at the Stalin mamo" he at the Stalin or through the consumption during the continuous reases in disable increases and increases and increases, and increases, and increases, and increases and	M Kirov plant "Dinemo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between the cupola. clast are as follown: times, depending on the pola working with a simple one. irect proportion with the based up to 1420°C (with are improved the quality
in of of of by on 5 3. The a)	Considerable explanation of castings; Considerable explanation of production of production of metal one ton of metal and 10 m ³ per mile advantages of The production oxygen content of the production oxygen content of oxygen content of oxygen content of oxygen castings;	By V Krasnov, Laur of the S M Kirov profession of the effectivene pig iron. uced into the curol fliquid oxygen. The liquid oxygen of the oxygen blast, with of the curolant of the blast, as the production procure of the molten may gen of the blast, blast - 1390°C). There were less caltion of oxygen permit fuel.	s been don a (or bla he average consumpt the sect or oxygen increases compared ess is a etal incr and it c The highe sting def	the Stalin mamo" The at the Stalin mamo" The at the Stalin of the Stal	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 min the process varied between the cupola. clast are as follown: times, depending on the pola working with a simple one. irect proportion with the eased up to 1420°C (with a process of scrap metal.
in of of of by on 5 3. The a)	Considerable explanation of production of production of production of gasification of one ton of metal and 10 m per mile advantages of the production oxygen content of oxygen content of oxagen content of oxagen of castings; The introduction of castings;	By V Krasnov, Laur of the S M Kirov property of the S M Kirov property of the effectivene pig iron. Succed into the cupol of liquid oxygen. The liquid oxygen of the oxygen blast, with of the cupola of the blast, as the production procure of the molten may gen of the blast, blast - 1390°C). There were less can tion of oxygen permit fuel.	ceate of to plant "Dir she average consumpt the section or oxygen increases compared ess is a setal increased the highesting definits the i	the Stalin mamo" The at the Stalin mamo" The at the Stalin of the Stal	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between the cupola. clast are as follows: times, depending on the pola working with a simple one. irect proportion with the cased up to 1420°C (with are improved the quality less of acrap metal.
in of of of by on 5 3. The a)	Considerable explanation of production of production of production of gasification of one ton of metal and 10 m per mile advantages of the production oxygen content of oxygen content of oxagen content of oxagen of castings; The introduction of castings;	By V Krasnov, Laur of the S M Kirov property of the S M Kirov property of the effectivene pig iron. Succed into the cupol of liquid oxygen. The liquid oxygen of the oxygen blast, with of the cupola of the blast, as the production procure of the molten may gen of the blast, blast - 1390°C). There were less can tion of oxygen permit fuel.	s been don a (or bla he average consumpt the sect or oxygen increases compared ess is a etal incr and it c The highe sting def	the Stalin mamo" The at the Stalin mamo" The at the Stalin of the Stal	M Kirov plant "Dinamo" f oxygen in the process) in form of gas obtained ion of oxygen was 3 to 4 m ² the process varied between the cupola. clast are as follows: times, depending on the pola working with a simple one. irect proportion with the cased up to 1420°C (with are improved the quality less of acrap metal.

	٨٠	proved For Release 2005/07/13 : CIA-RDP35-00809Αρ00500590230-9 25Χ1					
	ΔI	CONFIDENTIAL.					
		- 2 -					
25X1	4.	The article is only a survey and contains no technical data other than mentioned in the report. Similar experiments in this country were made already					
25X1		more than 10 years ago					
25X1		the (oxygen-enriched air) method has been used only experimentally because there is as yet no sufficiently economical way of obtaining the oxygen-enriched blast. Experimental work has shown the same improvements as mentioned now in the article of Krasnov.					
	5.	However, oxygen-enriched air is used in the US in open-hearth furnsces.					
	6.	The Soviets frequently do not care about the economy of a process, if some advantages have to be achieved; for instance, increased rate of production of pig iron or steel, which may be very important for the present time.	ges have to be achieved: for instance, increased rate of production of pig				
		- end -					
		25X1					

25X1